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(71) Applicants
Barry George Amey
5 Greenways, London Road, Addington, Kent,
ME19 5AN, United Kingdom

Peter Edward Davis
Lower Westwood House, Stretton Westwood, Much
Wenlock, Shrops, TF13 6DL, United Kingdom

(72) Inventors
Barry George Amey
Peter Edward Davis

(74) Agent and/or Address for Service
Stevens, Hewlett & Perkins
1 Serjeant's Inn, Fleet Street, London, EC4Y 1LL,
United Kingdom

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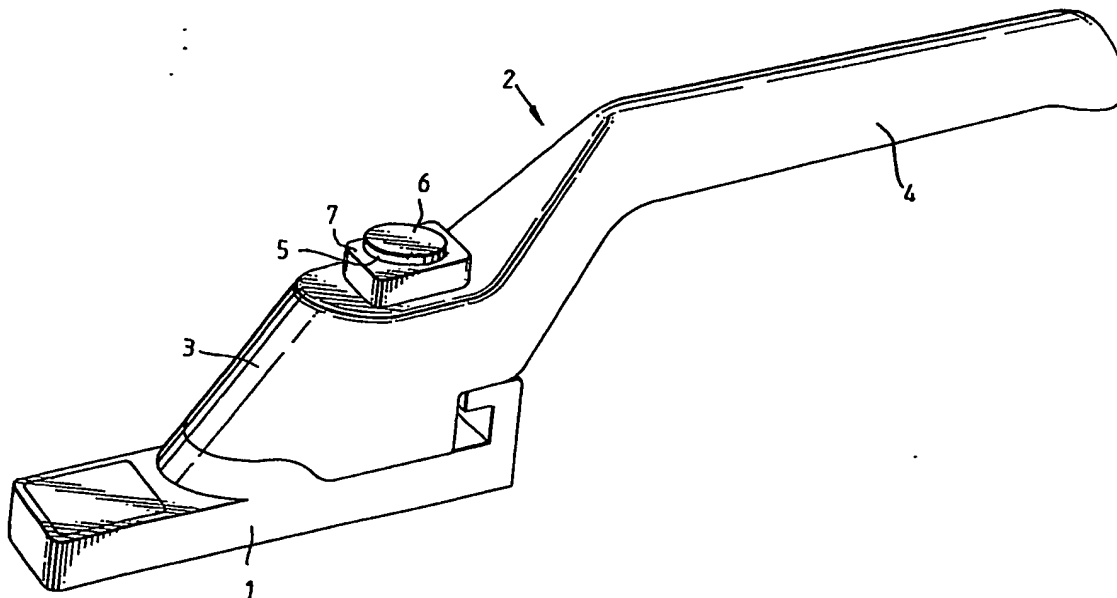
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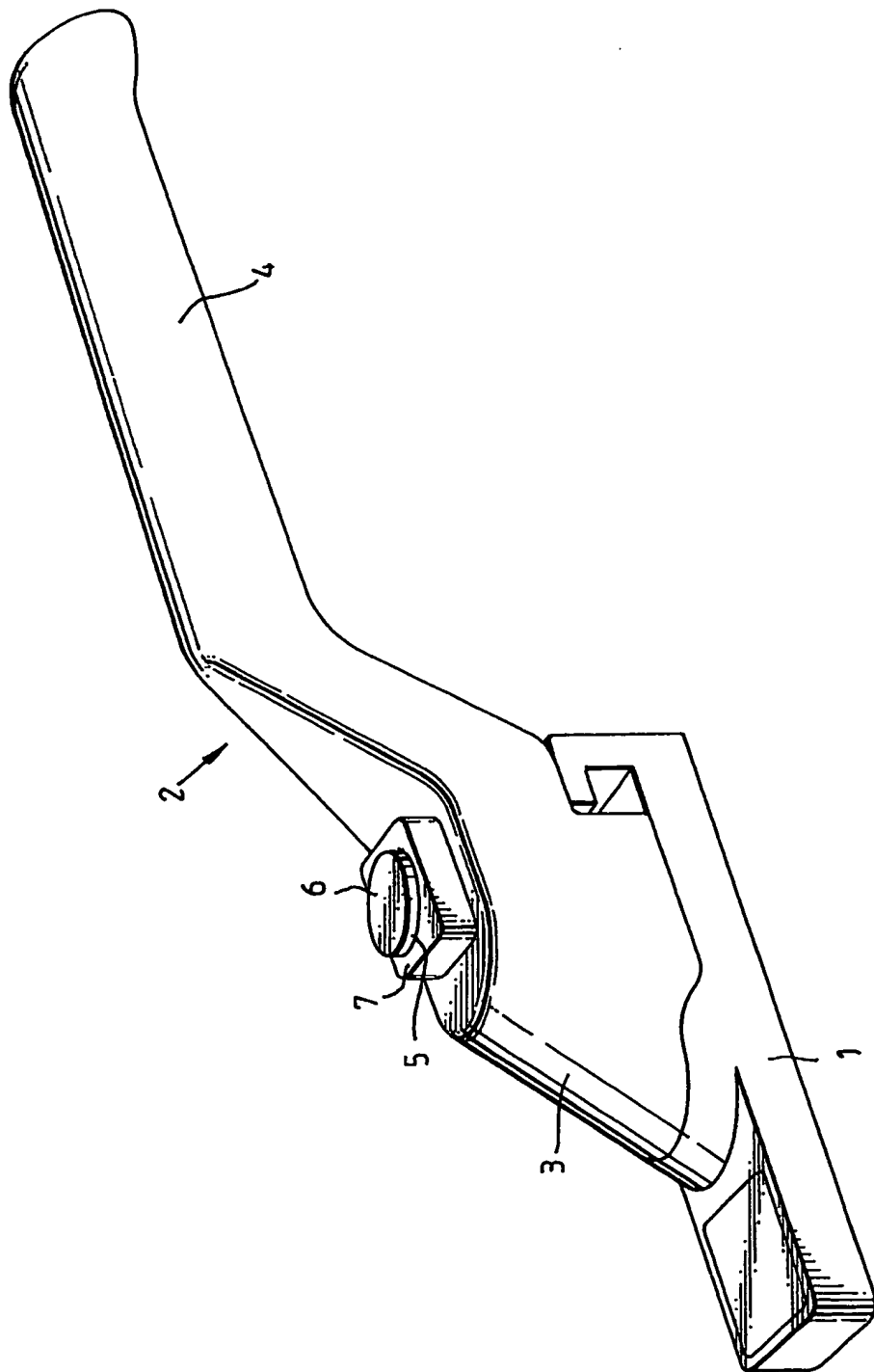
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(54) Luminescent door handles

(57) A door or window handle comprising a handle part 2 which is rotatable with respect to a base part 1 in order to operate an associated lock or latch mechanism (not shown). Mounted within the handle part 2 is a latching mechanism operated by a push button 5. In order to aid visibility of the push button 5, and thus enable the handle to be used in the dark, or in an emergency, the visible surface 6 of the button is formed or covered or coated with a luminous material.



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"DOOR OR WINDOW HANDLES"

This invention relates to handles for doors or windows.

5 A problem arises with such handles in the event of a fire. The occupant of a room within a building which is on fire clearly wishes to escape from the room as quickly as possible and he or she thus makes for the nearest door or window, as
10 appropriate. When the room is in darkness and/or is filled with smoke, the occupant may find it difficult to find the handle and, particularly if in panic, may waste precious time trying to locate the handle.

 In the present invention, this problem is
15 addressed by providing, on at least one visible surface of the handle a luminous material so that the handle is visible even in such difficult conditions as described above. The luminous material may be provided as a layer of luminous material attached to
20 the aforesaid surface or as a coating of luminous paint on the surface. Alternatively that part of the handle itself which forms said surface may be made of luminous material.

 The luminous material may be provided in the
25 form of a pattern, possibly creating letters or a word indicating an escape route. The luminous material may be provided on the turnable part of the handle or, where the handle incorporates a lock, or a latching button, lever or similar means, may be placed on or
30 about the lock or latch operating means so as to clearly indicate its location. Locking or latching mechanisms are now routinely provided on window handles for security purposes; locking mechanisms requiring a key are generally looked upon with
35 disfavour by fire authorities since, even if the occupant locates the handle, they may still not be

able to escape if the key is not present. Therefore non-lockable latching mechanisms are preferred.

In an embodiment of the invention, a part of the same surface, or a different visible surface, of the handle is provided with a reflective surface. The reflective surface may be provided close to the luminous surface, in order to enhance its effectiveness, or may be separate therefrom. The primary purpose of the reflective surface is to enable the handle to be readily located by shining a light on it. Many people have a torch by their bedside which could be used for such purpose.

In order that the invention may be better understood, an embodiment thereof will now be described by way of example only and with reference to the accompanying drawing which is a perspective view of an espagnolette window handle made in accordance with the invention.

Referring to the drawing, the handle comprises a baseplate 1 which is screwed to the openable part of the window (not shown) and a handle part 2 which is rotatable with respect to the baseplate 1 to engage or otherwise a formation (not shown) attached to the window frame. The handle part 2 comprises a main body 3 and a grippable portion 4. Within the main body 3 is a latching mechanism which is operated by an external button 5. Generally speaking, the button will be in its up (latched) position in both extreme positions of the handle, but other arrangements are possible. In order to operate the handle to open the window, the button is depressed to release the latching mechanism and thus free the handle part 2 for rotation about the baseplate 1.

In order to be clearly visible in a darkened and/or smoke-filled room, the button 5 needs to be clearly seen. To this end, the visible surface 6 of

the button is formed, or covered or coated with, a
luminous material. The luminous material will emit
light that has been stored during daylight hours, or
when exposed to a normal room light for any length of
5 time.

Surrounding the button is a collar 7 made of
reflective material which will enhance the effect of
the luminous material and at the same time provide a
reflective surface which will shine when a light from
10 a light source such as a torch is incident upon it.

The luminous and reflective surfaces may
alternatively or in addition be applied to other
visible surfaces, such as the handle part 4 or even
the baseplate 1. In the event that a key operated
15 lock takes the place of the button 5, the visible
surface of such lock may be provided with a luminous
coating.

Although described in relation to a window
handle, it is clear that the principles of the
20 invention could be readily applied to door handles,
including sliding door handles, as well as to other
types of window handle, whether lockable or not.

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CLAIMS

1. A door or window handle comprising a base part for attachment to the door or window and a handle part
5 rotatably mounted on said base part for operation of an associated lock or latch mechanism, said handle being characterised in that, on at least one visible surface of the handle, there is provided a luminous material.
- 10 2. A handle as claimed in claim 1 wherein the luminous material is provided as a layer of luminous material attached to said surface.
3. A handle as claimed in claim 1 wherein the luminous material is provided as a coating of luminous
15 paint on said surface.
4. A handle as claimed in claim 1 wherein that part of the handle which comprises said surface is made of luminous material.
5. A handle as claimed in any one of claims 1 to
20 4 wherein the luminous material is provided on the handle part of said handle.
6. A handle as claimed in any one of the preceding claims further comprising a locking or latching means, and operating means for operating said
25 locking or latching means, and wherein the luminous material is provided on a visible surface of said operating means.
7. A handle as claimed in any one of the preceding claims wherein said luminous material is
30 provided in the form of a pattern.
8. A handle as claimed in claim 7 wherein said pattern takes the form of letters or words.
9. A handle as claimed in any one of the preceding claims wherein a part of said surface,
35 and/or a different surface is provided with reflective material.

10. A door or window handle substantially as hereinbefore described with reference to and as illustrated in the accompanying drawing.

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Patents Act 1977
Examiner's report to the Comptroller under
Section 17 (The Search Report)

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Relevant Technical fields

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Search Examiner

MR A ANGELE

Databases (see over)

(i) UK Patent Office

(ii) WPI

Date of Search

11 MAY 1993

Documents considered relevant following a search in respect of claims

Category (see over)	Identity of document and relevant passages	Relevant to claim(s)
X	GB 2250636 A (TRANTER) - see whole document - especially embodiments of Figures 2 to 4	1 to 9
X	GB 2146475 A (SHEFFIELD BRICK) - whole document	1,2,4,5,9
X	WO 86/00659 (GKN-STENMAN) - see page 6 and Figure 5 embodiment	1, 4
X	US 4981314 (CARR) - see especially column 2 paragraph 1, column 4 paragraph 1	1 to 7, 9
X	DE 4120677 A1 (VOLKSWAGEN) - whole document	9

Category	Identity of document and relevant passages	Relevant to claim(s)

Categories of documents

X: Document indicating lack of novelty or of inventive step.

Y: Document indicating lack of inventive step if combined with one or more other documents of the same category.

A: Document indicating technological background and/or state of the art.

P: Document published on or after the declared priority date but before the filing date of the present application.

E: Patent document published on or after, but with priority date earlier than, the filing date of the present application.

&: Member of the same patent family, corresponding document.

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